

## BEGONIA NOMENCLATURE NOTES, I

### *Begonia repens* Lamarck

Jack Golding, 47 Clinton Ave., Kearny, N. J. 07032

*The Species of the Begoniaceae*, Edition 2, 1974, by Fred A. Barkley and Jack Golding is a compendium of the published names and published synonymy for the species and therefore continues the errors from the literature. I have been reviewing the literature to verify or correct the citations and their synonymy. My determinations will be published in this series, "Begonia Nomenclature Notes."

### ORIGINAL CITATION

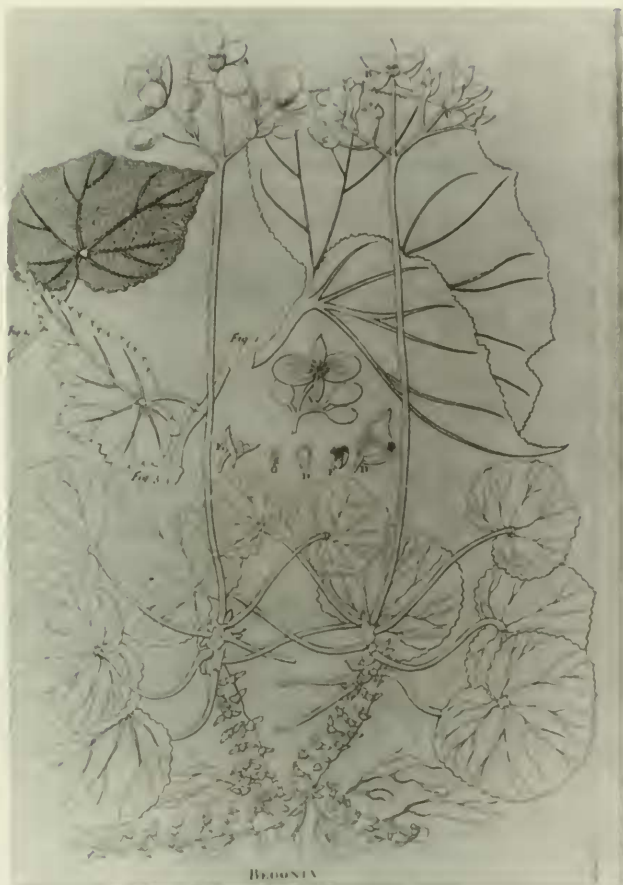
The name *Begonia repens* was first published by Jean Baptiste Lamarck in *Encyclopedie methodique. Botanique* 1: 394. 1 August 1785. He gave this name to the plant of Charles Plumier, *Begonia roseo flore, folio aurito, minor et hirsuta*, (*Begonia* with pink flower, eared leaf, smaller and hairy) listed in Joseph Pitton de Tournefort, *Institutiones* 1. (app.): 660. 1700.; in Plumier, *Nova plantarum americanarum genera*: 20. 1703; and illustrated in Plumier, *Plantarum americanarum*, Johannes Burman edit., fasc. 2: 34. t. 45. f. 2. 1756.

5. *BEGONIA* rampante, *Begonia repens*. *Begonia caulibus repentibus ad nodos radicosis; foliis uniauritis; pedunculis axillaribus, longis, multifloris*. N. *Begonia roseo flore, folio aurito, minor, & hirsuta*. Plum. Sp. 20. Ic. 45. f. 2.

6. *Begonia roseo flore, folio aurito, minor, & glabra*. Plum. Sp. 20. Ic. 45. f. 3.

The original citation by Lamarck

Sa racine est rampante comme celle du Chien-dent (*triticum repens*), & pousse des tiges nouvelles; couchées & étalées sur la terre, feuillées, & munies à chaque nœud de petites racines fibreuses. Ses feuilles sont alternes, pétiolées, un peu plus grandes que la paume de la main, obliques, crénelées, à un seul lobe à leur base, vertes en dessus avec beaucoup de nervures blanchâtres chargées de poils courts, & rouges en leur surface inférieure. De chacune des aisselles des feuilles supérieures, il s'élève un pédoncule long d'un pied & demi ou davantage, & qui soutient un corymbe rameux, muni de fleurs, les unes mâles & les autres femelles. Leurs pétales sont blancs & elliptiques; les femelles en ont six portés sur un ovaire rouge & à trois aîles. Leur fruit a aussi trois aîles, mais dont une est beaucoup plus grande que les autres. Les fleurs mâles n'ont que quatre pétales & de petites étamines jaunes. Cette plante croît à St. Domingue, dans le voisinage des ruisseaux. Plum. Mff.



*Plantarum americanarum tabula XLV*

- MAIN FIG. *Begonia roseo flore, folio orbiculari* Plumier. = *Begonia rotundifolia* Lamarck.  
 FIG. 1. *Begonia purpurea et nivea, maxima, folio aurito* Plumier. = *Begonia macrophylla* Lamarck.  
 FIG. 2. *Begonia roseo flore, folio aurito, minor et hirsuta* Plumier. = *Begonia repens* Lamarck.  
 FIG. 3. *Begonia roseo flore, foliis acutioribus, auritis, et late crenatis* Plumier. = *Begonia plumieri* A. DC.

[Courtesy Hunt Institute for Botanical Documentation]

The English translation by Carrie Karegeannes\* follows:

5. Creeping *Begonia*. *Begonia repens*.

*Begonia* with creeping stems with many roots at the nodes, the leaves with one earlike lobe; the peduncles axillary, long, multiflowered. Names: *Begonia roseo flore*, *folio aurito*, *minor*, & *hirsuta* [*Begonia* with pink flower, eared leaf, smaller, and hairy]. Plumier, *Sp.*: 20. *Icones*: tab. 45. fig. 2.

Variety *beta*. *Begonia roseo flore*, *folio aurito*, *minor*, & *glabra* [*Begonia* with pink flower, eared leaf, smaller, and glabrous]. Plumier, *Sp.*: 20. *Icones*: tab. 45. fig. 3.

Its root is creeping like that of the Couch-grass (*Triticum repens*) and puts forth knobby stems, prostrate and spreading on the ground, leaved, and provided with fibrous roots at each node. Its leaves are alternate, petioled, a little larger than the palm of the hand, oblique, crenate, with a single lobe at the base, green on the upper side with many whitish veins laden with short hairs, and red on the under surface. From each of the axils of the upper leaves arises a peduncle one and a half feet long or more, which supports a branched corymb provided with flowers, some male and the others female. The petals are white and elliptic; the females carry six petals on a red ovary with three wings. Their fruit also has three wings, but one of them is much larger than the others. The male flowers have only four petals and small yellow stamens.

This plant grows in Santo Domingo, in the neighborhood of streams. Plumier MSS.

CONFUSION WITH TABULA 45

Lamarck named his variety *beta* as based on the plant of Plumier, *Begonia roseo flore*, *folio aurito*, *minor* & *glabra* (*Begonia* with pink flower, eared leaf, smaller and glabrous), and also referred to Plumier's illustration fig. 3 on tab. 45. But this was not correct as fig. 3 was based on Plumier's *Begonia roseo flore*, *foliis acutioribus*, *auritis* & *late crenatis* (*Begonia* with pink flower, with leaves more acute, eared, and broadly crenate).

\*Reprinted by permission. 1976 © Carrie E. Karegeannes

An examination of the text on page 34 of *Plantarum americanarum* that pertains to fig. 2 on tab. 45 causes me to speculate that the original reference to fig. 3 might have been a typographical error.

The text is: "*Begonia roseo flore, folio aurito, minor & hirsuta. Plum. Cujus folium Fig. 2 exprimitur, hujus & altera glabra est, ejusdem penitus structuræ,*" which I translate as "*Begonia* with pink flower, eared leaf, smaller and hairy Plumier, whose leaf is portrayed by fig. 2, the inner structure of this and the other, glabrous one is the same." This reference to "the other, glabrous one" is to *Begonia roseo flore, folio aurito, minor & glabra* Plumier.

Since the configuration of the hairy leaved *Begonia* and the glabrous leaved *Begonia* was the same, Lamarck named the former *Begonia repens* and the later *Begonia repens* var. *beta*. He probably intended to refer both to fig. 2 or perhaps originally var. *beta* was to shown by fig. 3, but when the figure was changed to show a different plant, the text was not corrected.

Otto E. Schulz reviewed the early *Begonia* in Urban, *Symbolae antillanae* 7: 1-29. 1911. On page 15 he gave the name *Begonia brachypoda* to Plumier's plant that Lamarck had designated as *Begonia repens* var. *beta* (excluding fig. 3 of tab. 45).

The plant of Plumier that was illustrated by tab. 45. fig. 3 was given the name *Begonia plumieri* by A. de Candolle in his *Prodromus* 15(1):295. 1864.

#### CITATION OF SCHULZ

Otto E. Schulz also listed on page 28, *ibid.*, *Begonia repens* Lamarck (excluding var. *beta*) under the heading of "Species not sufficiently known," and observed, "It seems this species is properly separated but until now it is yet to be found again." He referred to these citations:

1. The original by Lamarck, given above.
2. The comments by Jonas Dryander in his "Observations on the genus of *Begonia*" in *Transactions of the Linnean Society of London* 1:172. 1791. Dryander had listed *Begonia repens* Lamarck under "Obscure Species" and noted after the description, "Chevalier

Lamarck describes this with white flowers, which according to Plumier's name should be pink." Dryander also noted Lamarck's error in citing *tab. 45. fig. 3* for his variety *beta*.

Most botanists do not consider flower color to be an important characteristic in the determination of a species. I have often noted that some *Begonia* species growing in shaded areas have flowers that are white, but when the same species is grown in a sunnier location, the flowers often are tinged with pink or are completely pink.

3. Baillon, *Natural history of plants* 8:497. 1886. This reference merely lists the name *Begonia repens* Lamarck in a paragraph about the uses of *Begonia*.

#### CITATION OF A. DE CANDOLLE

A. de Candolle, in *Prodromus* 15 (1): 395. 1864., listed *Begonia repens* Lamarck with others under the heading, "Doubtful Species." He gave a description based on Lamarck's original description and, referring to *fig. 2* of *tab. 45.* in Plumier, *Plantarum americanarum*, he commented, "where there is only a badly drawn leaf," and that the base, according to the description, had one earlike lobe, but from the illustration [as he saw it], was peltate. The underside of the leaf, from the description, A. DC. said, was hairy at the veins, but from the illustration it was sparsely hairy. He also noted that Lamarck's variety *beta* was certainly different, not completely known, and perhaps should be referred to *Begonia wrightiana*.

De Candolle apparently considered Plumier's *fig. 2* as a view of the underside of the leaf. Perhaps that is why it looked peltate and sparsely hairy at the veins to him. I have studied the *fig. 2* and it seems to me that it is drawn as viewed from above with the one earlike lobe overlapping the other, giving it the appearance of a peltate leaf. Also, if it were a view of the underside, the petiole would not be covered by the basal lobe and would be completely visible to the point of attachment to the blade.

## OBSERVATIONS OF URBAN

I. Urban in "Plumiers Leben and Schriften," Fedde, *Repertorium* 5:109. 1920., observed that tab. 125 in the book of Boerhaave (*Begonia roseo flore, folio aurito, minor et glabra* = *B. repens* var. *beta* Lam. = *B. brachypoda* O. E. Schulz) and tab. 126 (*Begonia roseo flore, folio aurito, minor et hirsuta* = *B. repens* Lamarck) are similar except for the glabrousness.

These illustrations were copies of the original Plumier drawings made by Claude Aubriet in 1733 for Herman Boerhaave and they were used by Johannes Burman for the preparation of t. 45 in the *Plantarum americanum*. It would seem that rather than showing two separate leaves from the plants of Boerhaave's t. 125 and t. 126, which were the same except for the hair or the lack of it, he showed only the one from t. 126 and referred to the other t. 125 on page 34 of the text, as noted above.

I have been trying to obtain copies of either these illustrations or the originals by Plumier, as they may show the entire plants, not just the single leaves. A look at the original illustrations of Plumier probably would also resolve de Candolle's question concerning the peltate leaf and hairiness. Stafleu, *Taxonomic literature* :360. 1967., lists the location of the original drawings and several copies.

## INDEX KEWENSIS

More confusion is caused by the listing in *Index Kewensis* 1:287. 1895., that showed *Begonia repens* Lamarck as a synonym of *Begonia rotundifolia* Lamarck. Compare the above description of *Begonia repens* Lamarck with the following description of *Begonia rotundifolia* Lamarck.

7. BÉGONE à feuilles rondes, *Begonia rotundifolia*. *Begonia caulibus squamosis, apice solidis; pedunculis scaposis foliis longioribus; floribus umbellato-paniculatis*. N. *Begonia flore roseo, folio orbiculari*. Plum. Spec. 20. Tournef. 600. Burm. Amer. Tab. 45.

The original  
citation by  
Lamarck.

Cette Bégonie paroît former une espèce tout-à-fait distincte de toutes les autres, qu'on trouve mentionnées dans les Auteurs: ses tiges ne sont que des souches épaisses, charnues, cylindriques, nues, chargées de petites écailles stipulaires qui persistent, & marquées en outre entre chaque paire d'écailles, d'autant de cicatrices qu'ont laissé les anciennes feuilles après leur chute; elles sont garnies à leur sommet de plusieurs feuilles arrondies ou réniformes, quelquefois ombiliquées, légèrement crénelées dans leur contour, vertes & luisantes en dessus, blanches en dessous, & soutenues par d'assez longs pétioles qui s'insèrent près les uns des autres. De l'extrémité supérieure de chaque souche, s'élève un long pédoncule, ou plutôt une espèce de hampe beaucoup plus longue que les feuilles, & qui porte à son sommet des fleurs rougeâtres, monoïques & disposées en panicule ombelliforme. Cette plante croît dans l'Amérique méridionale, attachée aux rochers ou aux troncs d'arbres.

English translation by Carrie Karegeannes\* follows:

7. Round-leaved *Begonia*. *Begonia rotundifolia*.

*Begonia* with scaly stem, full of leaves at the tip; the scapose peduncle longer than the leaves; the flowers borne in an umbellate panicle. Names: *Begonia flore roseo, folio orbiculari* [*Begonia* with pink flower, round leaf]. Plumier, Spec.: 20. Tournefort, : 600. Burman, Amer. tab. 45.

This *Begonia* would appear to form a species quite distinct from all the others that we find mentioned by the authors; the stems are merely thick rhizomes, fleshy, cylindrical, naked, laden with small stipulatory scales that persist, and marked besides between each



pair of scales by as many scars that old leaves have left after their fall. The rhizomes are furnished at their tips with several rounded or reniform leaves, sometimes umbilicate [navel-like, having a small central depression--or, Stearn says some authors use this to mean peltate; A. de Candolle cites it as "perhaps peltate?" with the question mark], lightly crenate on the margin, green and shining on the upper surface, white underneath, and supported by rather long petioles inserted close together.

From the upper end of each rhizome arises a long peduncle, or rather a kind of scape, much longer than the leaves and carrying at its tip reddish monoecious flowers disposed in an umbel-shaped panicle.

This plant grows in South America, attached to rock or to trunks of trees.

It is obvious that these are separate species that do not even resemble each other. I investigated the literature, trying to find a reason for this listing in *Index Kewensis*.

Steudel in *Nomenclature botanicus*, Ed. 1:104. 1821., listed as valid names both *B. repens* Lamarck and *B. rotundifolia* Lamarck. But in Ed. 2: 194. 1840., he listed as a valid name *Begonia repens* Arrab. [Steudel showed Fra. Antonio de Arrabida, the Editor of *Flora fluminensis*, as the author instead of Vellozo] and made *B. repens* Lamarck a synonym of *Begonia rotundifolia* Lamarck.

I reviewed the literature of *Begonia* between 1821 and 1840 trying to find a reason for this change by Steudel, but I could find none. I can only surmise that the confusion was caused by tab. 45 of Plumier *Plant. Amer.* that showed as the main figure the complete plant of *B. rotundifolia* Lamarck and only the leaves of other *Begonia* species as fig. 1, *Begonia macrophylla* Lamarck; fig. 2, *Begonia repens* Lamarck; and fig. 3, *Begonia plumieri* A. DC.

#### RECENT CITATION BY URBAN

I. Urban in *Plantae Haitiensis et Domingensis VIII*, *Arkiv för Botanik* 23A (5): 95-96. 1930., described the *Begonia* species collected by E. L. Ekman during 1917 and determined it to be *Begonia repens* Lamarck.



Urban referred to these citations:

*Begonia repens* Lamarck, *Encyc.* 1:394. 1785. (excl. var. *beta*); A. DC. *Prodr.* 15 (1): 395. 1864.; O. E. Schulz in Urban, *Symb. ant.* 7:28, 1911.: *Begonia obliqua* var. *gamma* L. *Spec. plant.* 1:1056. 1753.; Descourt. *Flor. ant.* 7:331. t. 531. 1829.: *Begonia roseo flore, folio aurito, minor et hirsuta* Plum. in Tournef. *Instit. app.*: 660. 1700., *Cat.*: 20. 1703., and ed. Burm.: 34. t. 45. f.2. 1756.

These have been discussed above except for the one by Michel Etienne Descourtilz on page 331, with t.531, in *Flore pittoresque et medicale des antilles*, Volume 7, 1829, which concerns a *Begonia* with two-colored leaves. His list of synonymy is confused and includes "*Begonia roseo flore, folio aurito major* [? probably intended as *minor*], *et hirsuta*. Pl. Sp.: 20. Icon. 45 f.2," and several other *Begonia* which have been determined as separate species. The illustration t. 531 is of an apparently upright *Begonia* that seems to resemble *Begonia minor* Jacquin, *Coll.* 1: 126. 1787; and *Icones* 3:18 t.618. 1789. The flower details seem to be copies from t.778 by Redoute used by Lamarck in *Tableau Encl.* 2 (4) 1796, to illustrate *Begonia nitida* Dryander (a synonym of *Begonia minor* Jacquin). This illustration was adopted from an earlier plate by Redoute used by L'Heritier as pl. 46 in *Stirpes novae*: 95. 1788., to illustrate *Begonia obliqua* L. (this has been determined to be *Begonia minor* Jacquin). Also, t.531 does not seem to agree with description by Descourtilz, nor the other descriptions of *Begonia repens* Lamarck as a prostrate creeping plant.

My translation from the Latin of Urban's description follows: -

*Stem* creeping in the soil with many roots, up to 1 cm. thick. *Stipules* ovate shortly acuminate, entire, glabrous, up to 20 mm. long and up to 10 mm. wide. *Leaves* supported on petioles attached to the base of the blade, the *petioles* 6 to 20 cm. long, covered with more or less close together hairs 3 mm. long, spreading, usually zigzag or curved inward above, 5-8 mm. wide when flattened; the *blade* 10 to 15 cm. by 6 to 12 cm. large or smaller, obliquely reniform or transversely ovate, deeply cut at the base to 1-3 cm., the inside angle closed, one side (from the petiole attachment) rounded, the other shortly and obtusely or sharply acuminate; 7 to 9 veins extending from the base, much branched and reticulately connected; margin entire or

with 1 or 2 very wide and short teeth above, as if undulate; glabrous on the upper surface, below and at the margins with moderately long hairs; crimson or green; membranous in the dry state.

*Inflorescences* coming from the rhizomes, the *peduncle* 10-35 cm. long, glabrous, cymosely divided twice or thrice, the inflorescences themselves ultimately up to 12 cm. long; *bracts* ovate, 12 to 8 mm. long, 8 to 4 mm. wide; *bracteoles* oblong; finely three veined, often 7 mm. long, 2.5 mm. wide. *Male flowers* with pedicels often 6 mm. long. *Sepals* broadly ovate, those on hand scarcely cordate at the base, 6 mm. long, 5 mm. wide; *petals* white, whole ones not seen, but apparently narrowly obovate; only the younger *anthers* seen, 5, oblongly linear with tip subtruncate, minutely or scarcely apiculate, filaments free, longer than the anthers. *Female flowers* on pedicels ultimately up to 17 mm. long; *petals* white, the larger ones obovate, rounded in front, 7 mm. long, 4.5 mm. wide; *styles* ultimately 4 mm. long, the lower quarter united, the column changing suddenly into 6 to 8 simple threadlike, twisted branches. *Capsules* from the side almost circular, 6 mm. in diameter; *wings* spreading at right angles, the larger one ovate-triangular, a little obtuse, gradually narrowed, 12 mm. long, 9 mm. wide at the base, smaller ones shortly triangular, 3 to 5 mm. long. *Seeds* briefly obovate, with one side rounded, the other obtuse and scarcely apiculate, dark brown, coarsely reticulate, 0.3 mm. long.

From Haiti near brooklets: Plumier (in Lamarck).

Rediscovered since the time of Plumier, on Morne de la Hotte in mountain forest on northeastern slopes, at an altitude of 800 meters, scattered, 11 June 1917: Ekman No. 171 (ster.).

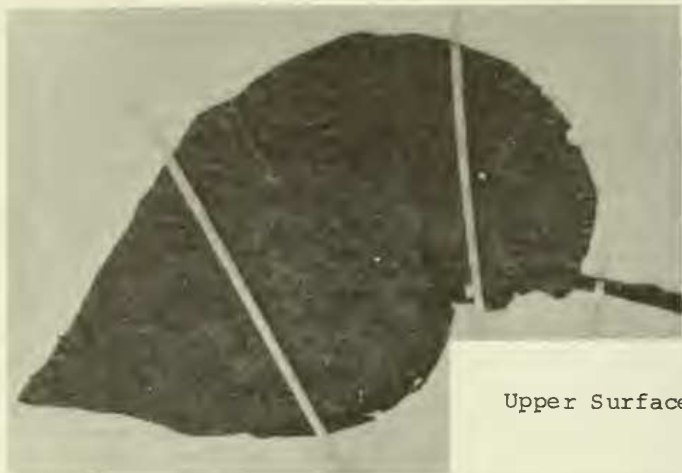
The same place in the central part near St. Louis du Sud, on the peak Bonnet-Carré, at an altitude of 1250 meters, with fruit, in the month of November: No. H 9243.

The same place in western part near Camp Perrin on northern mountains of Morne Vandervelde, frequent, in volcanic soil in the Coutard Gardens at 850-meter altitude, in December with flowers and fruit: No. H. 5220.

The same place, frequent, near Les Anglais on Morne l'Etang, at altitude of 1400 meters, month of July with flowers; No. H. 10355.

Observation. To be inserted in the arrangement of Schulz near *Begonia rotundifolia* Lam., but very different from it.

A duplicate of the Ekman specimen No. H. 5220 (less flowers and fruits) is at the U.S. National Herbarium in Washington, D.C. as U.S. No. 1412623.



Upper Surface



Lower Surface

*Begonia repens* Lamarck

Ekman Specimen No. H. 5220

[Courtesy, United States National Museum]

## REMAINING QUESTION

There still remain some discrepancies concerning the amount and location of the hairs on the leaves.

Plumier just stated that the species was hairy.

In *tab. 45. fig. 2.*, the hairs are all over the (upper?) surface.

Lamarck, citing Plumier's manuscript, described them as, "green on the upper side with many whitish veins laden with short hairs, and red on the under surface."

A. de Candolle apparently considered *tab. 45. fig. 2.* as a view of the lower surface and seems to have read Lamarck's description as, green on the upper side, with many whitish veins laden with short hairs and red on the under surface.

I. Urban described them as, "glabrous on the upper surface, below and at the margins with moderately long hairs."

My search for a copy of Plumier's manuscript and original drawing of his *Begonia, roseo flore, folio aurito, minor & hirsuta* will continue because I think their examination would resolve the differences between the early descriptions, But, since this may require some time, I consider it best to publish these results of my study of *Begonia repens* Lamarck now.

## THE CORRECT CITATION

To summarize, the name *Begonia repens* Lamarck is legitimate and correctly cited with its synonyms as follows:

*Begonia repens* Lamarck, Encyc. 1:394. 1785.; I. Urban Arkiv Bot. 23A (5):95. 1930.

*Begonia, roseo flore, folio aurito, minor & hirsuta* Plumier, Nov. Pl. Amer. Gen.: 20. 1703.; Pl. Amer. 2:34. t. 45. f. 2. 1756.

*Begonia obliqua* var. *gamma* L. Sp. Pl. 1753.

## HOMONYMS

All of the homonyms of *Begonia repens* have been renamed as follows:

*Begonia repens* var. *beta* Lamarck, Encyc. 1:394. 1785. (Excl. Plumier, Pl. Amer. 2:34. t. 45. f. 3.)

=*Begonia brachypoda* O. E. Schulz, Urb. Sym. Antill. 7:15. 1911.

*Begonia repens* Blume, Enum. Pl. Jav. 1:95. 1827.; A. DC. Prodr. 15 (1): 391. 1864.

=*Begonia mollis* A. DC. Prodr. 15 (1): 391. 1864. (not *Begonia muricata* Blume ex Backer & van den Brink, Flor. Jav.: 309. 1963.)

Observation: Cornelius A. Backer and C. Bakhuizen van den Brink in *Flora of java*: 309. 1963., listed as synonyms of *Begonia muricata* Blume: *Begonia mollis* Blume [? Probably intended as A. DC.], *Begonia repens* Blume, and *Begonia saxatilis* Blume. I have not been able to find any basis for this synonymy. Dr. S. H. Koorders in *Exkursionflora von java*: 649. 1912., reviewed and eliminated the confusion with *Begonia muricata* Blume and it is not the same as *Begonia mollis* A. DC.

*Begonia repens* Vellozo, Fl. Flum. 10:t.35. 1831.;  
Arch. Mus. Nac. 5:403. 1881.  
=*Begonia velloziana* Walpers, Rep. 2:216. 1843.

Observation: Walpers renamed *Begonia repens* Vellozo because he thought the name was preceded by *Begonia repens* Blume. As noted above, that name by Blume was not valid either and was later found to be a synonym of *Begonia mollis* A. DC. Nevertheless, in accordance with Article 64 of the ICBN the valid prior use of the name *Begonia repens* by Lamarck in 1785 (even if the name had later been found illegitimate, which it was not) precludes its use for any other species of the genus *Begonia*. Hence, *Begonia velloziana* Walpers is the legitimate name and *Begonia repens* Vellozo is a synonym.

*Rossmannia repens* Klotzsch, Monatsb. Akad. Berl.: 125. 1854.; Begoniaceen: 99.1855.

=*Begonia rossmanniae* A. DC. Prodr. 15 (1): 333. 1864.

*Begonia repens* Herb. Ruizii ex Klotzsch, Begoniaceen 100. 1855. pro syn.; Ruiz & Pavon ex A. DC.

Prodr. 15 (1): 333. 1864. pro syn.

=*Begonia rossmanniae* A. DC. Prodr. 15 (1): 333. 1864.

*Diploclinium repens* Miquel, Fl.Ind.Bat. 1: 686. 1856.

=*Begonia mollis* A. DC. Prodr. 15 (1): 391. 1864.

*Scheidweileri repens* Hasskarl, Hort. Bog. Desc.: 325. 1858.

=*Begonia mollis* A. DC. Prodr. 15 (1): 391. 1864.

*Mitscherlichia repens* Miquel, Fl.Ind.Bat. Suppl. 1: 333. 1861.

=*Begonia mollis* A. DC. Prodr. 15 (1): 391. 1864.

*Begonia repens* Schott ex A. DC. Prodr. 15 (1): 365. 1864. pro syn.

=*Begonia convolvulacea* A. DC. in Martius, Fl. Bras. 4 (1): 367. 1861.

*Begonia repens* Liebmam ex Hemsley, Biol. Centr. Am. Bot. 1:497. 1879. pro syn.

This is an error, the reference should have been to *Begonia reptans* Bentham.

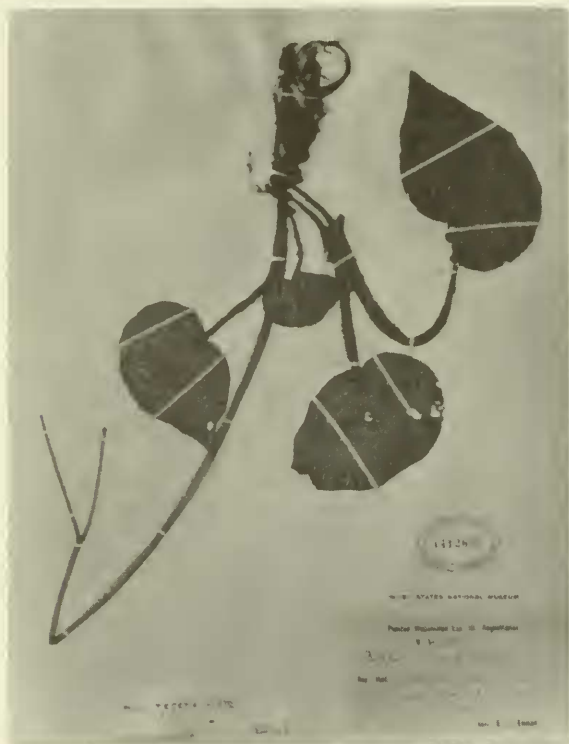
*Begonia repens* Sessé & Mociño, Fl. Mexic. ed. 2:219. 1894.

=*Begonia glabra* Aublet, Pl. Gui. 2:916. 1775.

## ACKNOWLEDGEMENTS

I thank the following for their assistance in the preparation of this monograph:

Carrie Karegeannes of Annandale, Va., for permission to use her translations, our discussions, and the editing of my draft manuscript;  
Peter Karegeannes for the photographs of the Ekman Specimen No. H. 5220 in the U.S. Herbarium;  
Dr. Lyman B. Smith for the information about the Ekman Specimen and his encouragement.



*Begonia repens* Lamarck      Ekman Specimen No. H. 5220  
[Courtesy, United States National Museum]